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14. Supplementary Notes				
15. Abstract				
Objective				
The objective of this study is to determine if carpet dragging is a viable alternative to tining as a method for texturing Portland Cement				
Concrete Pavement surfaces. This study will concentrate on noise level (exterior and interior) changes, skid resistance, and an alternate method of				
determining texture characteristics.				
<u>Summary</u>				
The sand patch test was used to determine the texture depth in the carpet drag sections. The desire minimum average texture depth value as				
determined by ASTM E 965 is 0.80mm 0.032". The average sand patch depth for the tined sections was 0.092" or about 3/32" and for the carpet				
drag sections was 0.034" or about 1/32".				
The roadside ambient noise study shows the decibel level to be 2.6 dB lower for light vehicles and 1.1 dB lower for heavy vehicles in the carpet drag				
sections as compared to the tining sections. This indicates that the carpet drag sections for light vehicles has nearly 1/3 the noise level as the tined				
sections. An increase of 10 dB is like doubling the noise level or sound loudness. The present average skid number in the tined sections is 49.6 and 49.0 for the carpet drag sections. These skid numbers are well above the				
acceptable minimum value. The higher the number, the better the skid resistance.				
The carpet dragging process must be watched very close in order to achieve and maintain the desired texture depth. Therefore the condition of the				
carpet must be monitored throughout the paving operation to insure that a uniformly roughened surface is achieved. The drag may have to be				
weighted down or the carpet cleaned in order to achieve the same texture as when the carpet was new. The carpet must be clean and free from mortar				
build-up to insure proper texture depth. Project IM-2-094(049)248 was completed late in the fall of 2001. This project did not receive the carpet drag texture as planned. SP 289(97)				
changed the texturing process to reflect the Marquette Study, which has tining, skewed 1:6 left hand forward. Therefore, with no carpet drag texturing				
present on the project, no traffic, skid, and texture data was collected.				
Averaging projects 1, 2, 4, and 5 in Table 6, shows that the turf drag sections are performing satisfactorily. The skid numbers are approximately				
equal and the noise loudness of the carpet section is about half of the tined section based on dB measurements.				
Report is available upon request in electronic or paper format. Please submit a Records/Electronic Information Request. The request				
may be faxed to 701-328-6913.				
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